

ARISTECH CODE NO. C4001H

ORIGINAL ISSUE DATE: 11/06/85

REVISED: 11/01/91

I. IDENTIFICATION		ARISTECH INFORMATION & EMERGENCY TELEPHONE NUMBERS (412) 483-7654 (8 a.m.-5 p.m., Mon.-Fri.) (412) 571-5888 (Off Hour Emergencies)				
PRODUCT NAME: C, CP, D, DP, F, FF, FP, FT, FPT, FFX, L, LP, TPA, TPF, XF, XL, XP - Series, COMMON NAME: Flake FORMULA: Polypropylene $[-CH(CH_3)CH_2-]_x$		MANUFACTURER: Aristech Chemical Corp. 600 Grant Street Pittsburgh, PA 15230-0250				
II. INGREDIENTS AND RECOMMENDED OCCUPATIONAL EXPOSURE LIMITS						
COMPONENT	% WT.	CAS NO.	EXPOSURE LIMITS		ORAL LD ₅₀	DERMAL LD ₅₀
			OSHA-PEL	ACGIH-TLV		
Polypropylene	Approx. 100	25085-53-4	None Estab.*	10 mg/m ³ (value is for total dust containing no asbestos and < 1.0% free silica).	No Data Found	No Data Found
HAZARD DATA Generally recognized as a low industrial hazard. Inhalation of vapor from thermal processing may cause irritation of the upper respiratory tract.						
INGREDIENT HAZARD INFORMATION This product does not contain any SARA Section 313 chemicals. * Nuisance Dust: PEL = 15 mg/m ³ (total dust) and 5 mg/m ³ (respirable fraction); TLV = 10 mg/m ³ (value is for total dust containing no asbestos and < 1.0% free silica).						
III. PHYSICAL DATA						
BOILING POINT (* F)	Not Applicable		SPECIFIC GRAVITY (H ₂ O = 1) @ 25 C		0.90-0.91	
SOFTENING POINT	180-170 (* C)		PERCENT, VOLATILE BY VOLUME (%)		Negligible	
VAPOR PRESSURE (mm Hg.)	Negligible		pH		Not Applicable	
VAPOR DENSITY (AIR = 1)	Not Applicable		SOLUBILITY IN WATER		Negligible	
APPEARANCE AND ODOR: Opaque whitish pellets (natural resin), or flake.						
IV. FIRE AND EXPLOSION HAZARD DATA						
FLASH POINT (method used) Not Applicable			FLAMMABLE LIMITS		Lel	Uel
					N/A	N/A
EXTINGUISHING MEDIA Water spray, carbon dioxide, dry chemicals						
SPECIAL FIRE FIGHTING PROCEDURES Polypropylene is a slow burning plastic which emits a dense black smoke. Firefighters should wear a self-contained breathing apparatus and protective clothing.						
UNUSUAL FIRE AND EXPLOSION HAZARDS Combustion products may be hazardous.						

V. REACTIVITY DATA

Stability	Unstable		CONDITIONS TO AVOID: None Known
	Stable	X	

INCOMPATIBILITY (materials to avoid)

Potassium Permanganate, Liquid Chlorine, fuming Nitric Acid and other strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon dioxide, carbon monoxide, organic oxidation products, acrid smoke and fumes.

Polymerization	May Occur		CONDITIONS TO AVOID: None
	Will Not Occur	X	

VI. SPILL OR LEAK PROCEDURES**TRANSPORTATION EMERGENCIES**
Call CHEMTREC 800-424-8300**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

If released or spilled, sweep up and place in a labeled container. Loose pellets may present a slipping hazard. Clean up immediately.

In case of release to the environment, report spills to 800-424-8802, The National Response Center.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations.

VII. HEALTH HAZARD DATA**MAJOR EXPOSURE HAZARD**☒ INHALATION ☐ SKIN CONTACT ☐ EYE CONTACT ☐ INGESTION**EFFECTS OF OVEREXPOSURE:**

INHALATION: Prolonged or repeated exposure to vapors, fumes, or smoke which may result from thermal processing may result in irritation of the upper respiratory tract. Respiratory reactions were observed in all laboratory rats exposed to a general purpose polypropylene resin heated to 700 ° F.

SKIN CONTACT: Molten resins may cause severe thermal burns.

EYE CONTACT: Decomposition fumes may be irritating to the eye. Heated material can cause thermal burns upon direct contact.

INGESTION: Product in marketed form is inert.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Individuals with chronic respiratory disorders (i.e., asthma, chronic bronchitis, emphysema, etc.) may be adversely affected by any fume or airborne particulate matter exposure. Persons with pre-existing skin disorders may be more susceptible to the effects of this material.

CARCINOGENICITY : Not Applicable☐ NTP ☐ IARC ☐ OSHA**OTHER COMMENTS:**

Chronic Hazards: Polypropylene has been tested in laboratory rats by subcutaneous implantation of discs or powder. Local sarcomas were induced at the site of implantation. No epidemiological studies or case reports suggest any serious chronic health hazards from long-term exposure to Polypropylene decomposition products below the irritation level (IARC, 19, 218).

VIII. EMERGENCY AND FIRST AID PROCEDURES**EMERGENCY AND FIRST AID PROCEDURES:**

INHALATION: For overexposure to heated resins, remove from exposure. If breathing is difficult or has stopped, administer artificial respiration (mouth-to-mouth) or oxygen as indicated.

SKIN CONTACT: For thermal burns, flush immediately with plenty of cold water. If possible, submerge affected surface in cold water. Call a physician.

EYE CONTACT: Flush immediately with plenty of cool water for at least 15 minutes. Call a physician.

INGESTION: No special first aid procedures necessary.

IX. SPECIAL PROTECTION INFORMATION**RESPIRATORY:**

Respiratory protection approved by NIOSH/MSHA for protection against organic vapors and dusts/mists should be used to avoid inhalation of excessive air contaminants. Appropriate respirator selection depends on the type and magnitude of exposure.

SKIN:

When necessary, garments for protection against hot materials should be used to prevent contact with molten Polypropylene.

EYE:

Employees should be required to wear chemical safety goggles to prevent eye contact. A face shield should be used when appropriate to prevent contact with molten polypropylene.

VENTILATION:

Local exhaust ventilation should be used to control the emission of air contaminants.

OTHER PROTECTIVE EQUIPMENT:

Emergency eye wash stations should be available in the work area. General dilution ventilation may assist with the reduction of air contamination concentrations.

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Avoid excessive breathing of vapors, fumes, or smoke which may be released during thermal processing. Store in a cool, dry area.

X. REGULATORY STATUS

TSCA STATUS: This product (or its ingredients if it is a mixture) appears on the Toxic Substances Control Act Inventory (TSCA).

SARA HAZARD CATEGORIES (Section 311 and Section 312)☐

REACTIVITY

☐

PRESSURE

☐

FIRE

☐

IMMEDIATE HEALTH

☐

DELAYED HEALTH

SARA Section 313: See Section II, Ingredient Hazard Information.

DOT SHIPPING NAME:

Not Applicable

DOT HAZARD CLASS:

Not Applicable

IDENTIFICATION NUMBER:

Not Applicable

HMS RATINGS (Hazardous Materials Identification System, Scale 0-4)

HEALTH

FLAMMABILITY

REACTIVITY

NFPA RATINGS (National Fire Protection Association, Scale 0-4)

HEALTH

FLAMMABILITY

REACTIVITY

If you require additional information regarding any legal or regulatory requirement referred to in this MSDS, we suggest that you consult with an appropriate regulatory agency, or with a professional with expertise in the area.

This information is taken from sources or based upon data believed to be reliable; however, Aristech Chemical Corporation makes no warranty as to the absolute correctness or sufficiency of any of the foregoing or that additional or other measures may not be required under particular conditions.